

Am-241

Cs-137

Co-60

Eu-152

Eu-154

H-3

Pu-239

Ra-226

Sr-90

Th-232

U-235

HPNS RGs are the current building remediation goals used at the Hunters Point site

All PRGs at 1×10^{-4} , assume secular equilibrium (PRGs would increase if decay of Cs-137, Co-60, Eu-152, Eu-154, H-3, Sr-90)

BPRGs in columns F and G are from online calculator using default exposure assumptions

ORNL PRGs in columns I-L are from xsheets provided on 7-14-20 - column AB, "3-D External BPRG Individual" tab

HPNS RGs	HPNS RGs
dpm/cm ²	pCi/cm ²
100	0.5
5000	22.5
5000	22.5
5000	22.5
5000	22.5
5000	22.5
100	0.5
100	0.5
1000	4.5
36.5	0.2
488	2.2

90 assumed?)

BPRG Ingestion PRGs, default	BPRG Ext. Exposure PRGs, default	ORNL Ext. Exposure PRGs- floor + 6' wall			
<i>pCi/cm²</i>	<i>pCi/cm²</i>	<i>center, pCi/cm²</i>	<i>corner, pCi/cm²</i>	<i>average, pCi/cm²</i>	<i>center wall, pCi/cm²</i>
0.02	7.95	12.4	7	8.2	8.4
0.67	7.92	21.8	13.1	14.7	15.1
0.57	1.84	5.2	3.2	3.5	3.6
0.46	3.91	9.3	5.8	6.5	6.7
0.92	3.65	8.9	5.5	6.2	6.3
348.00					
0.02	6.98	10.9	6.4	7.2	7.4
0.01	2.64	6.3	3.9	4.3	4.4
0.23	235.00	251.1	142.7	160.4	166.1
0.01	2.01	4.7	2.8	3.2	3.2
0.02	6.98	10.9	2.8	7.2	7.4

ORNL Ext. Exposure PRGs- floor + 6' wall	Ratio of BPRG Ingestion PRGs to current RGs	Ratio of ORNL Ext Exp. PRGs to current RGs			
<i>minimum,</i> <i>pCi/cm²</i>		<i>center</i>	<i>corner</i>	<i>ave</i>	<i>center wall</i>
7.2	0.04	28	16	18	19
13.1	0.03	1.0	0.6	0.7	0.7
3.2	0.03	0.2	0.1	0.2	0.2
5.8	0.02	0.4	0.3	0.3	0.3
5.5	0.04	0.4	0.2	0.3	0.3
6.4	0.04	24	14	16	17
3.9	0.01	14	9	10	10
142.7	0.05	56	32	36	37
2.8	0.07	28	17	19	20
2.8	0.01	5	1.3	3	3

Ratio of ORNL Ext Exp. PRGs to current RGs
<i>min</i>
16
0.6
0.1
0.3
0.2
14
9
32
17
1.3